

Pranav Kompally | 18BCE7169

1)

```
from pathlib import Path
```

```
entries = Path("G:\GRE")
for entry in entries.iterdir():
    if entry.is_file():
        print(entry.name)
```

**OUTPUT:**

```
C:\Users\HP\PycharmProjects\pythonProject\Securecoding\venv\Scripts\python.exe
C:/Users/HP/PycharmProjects/pythonProject/Securecoding/main.py
244788962.pdf
5 lb. Book of GRE Practice Problems - Manhattan Prep.pdf
Barron's gre 19th edition.pdf
Barrons New GRE --.pdf
GRE 6 PRACTICE TEST.pdf
kaplan-gre-practice-test-gg5079.pdf
The 5 lb. Book of GRE Practice Problems (2nd Edition) by Manhattan
Prep[grematerials.com].pdf
```

2)

```
from pathlib import Path
```

```
rootdir = 'H:\documents'
for path in Path(rootdir).iterdir():
    if path.is_dir():
        print(path.name)
```

**OUTPUT:**

```
C:\Users\HP\PycharmProjects\pythonProject\Securecoding\venv\Scripts\python.exe
C:/Users/HP/PycharmProjects/pythonProject/Securecoding/main2.py
.metadata
coding
Custom Office Templates
inte
java
```

MATLAB  
Sc  
stack.java

3)

```
from pathlib import Path
def listdirs(rootdir):
```

```
    for path in Path(rootdir).iterdir():
        if path.is_dir():
            print(path.name)
            listdirs(path)
```

```
rootdir = 'H:\documents'
listdirs(rootdir)
```

#### OUTPUT:

C:\Users\HP\PycharmProjects\pythonProject\Securecoding\venv\Scripts\python.exe  
C:/Users/HP/PycharmProjects/pythonProject/Securecoding/main3.py

.metadata  
.mylyn  
.taskListIndex  
contexts  
.plugins  
org.eclipse.buildship.core  
org.eclipse.core.resources  
.history  
18  
19  
20  
2a  
32  
33  
35  
3c  
40  
49  
51  
5a  
60  
62  
6a  
77  
7b

7e  
82  
85  
86  
89  
92  
94  
96  
9b  
9c  
ad  
ae  
b1  
b5  
bc  
be  
c0  
c2  
c4  
c6  
cd  
d7  
d8  
de  
e4  
e5  
e9  
ed  
ee  
.projects  
.root  
.indexes  
.safetable  
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.settings  
org.eclipse.debug.core  
.launches  
org.eclipse.debug.ui  
org.eclipse.e4.workbench  
org.eclipse.eclemma.core  
.execdata  
org.eclipse.emf.common.ui  
org.eclipse.jdt.core  
org.eclipse.jdt.debug.ui

org.eclipse.jdt.launching  
org.eclipse.jdt.ui  
org.eclipse.ltk.core.refactoring  
.refactorings  
.workspace  
2019  
8  
35  
implementing\_interface  
2019  
8  
35  
inte  
2019  
8  
35  
stack.java  
2019  
1  
3  
7  
28  
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org.eclipse.m2e.logback.configuration  
org.eclipse.mylyn.bugzilla.core  
org.eclipse.mylyn.context.core  
contexts  
org.eclipse.mylyn.tasks.ui  
org.eclipse.oomph.setup  
org.eclipse.oomph.setup.ui  
org.eclipse.tips.ide  
org.eclipse.ui.ide  
org.eclipse.ui.intro  
org.eclipse.ui.workbench  
org.eclipse.userstorage.oauth  
org.eclipse.wst.sse.core  
org.eclipse.wst.sse.ui  
coding  
Custom Office Templates  
inte  
.settings  
bin  
inte  
src

inte  
java  
crypto  
cryptography  
floyd-master  
floyd-master  
classes  
test  
Free\_Project\_HealthCare Management System-freeproject24.com  
Free\_Project\_HealthCare Management System-freeproject24.com  
1  
code  
database  
DOCUMENTATION  
DOCUMENTATION  
Screens  
uml  
MedicalApp  
MedicalApp  
images  
WEB-INF  
classes  
com  
lib  
mysql-connector-java-8.0.20  
mysql-connector-java-8.0.20  
src  
build  
java  
documentation  
instrumentation  
misc  
debian.in  
source  
demo  
java  
demo  
x  
devapi  
generated  
java  
com  
mysql  
cj

x  
protobuf  
legacy  
java  
com  
mysql  
jdbc  
main  
core-api  
java  
com  
mysql  
cj  
conf  
exceptions  
interceptors  
log  
protocol  
result  
util  
core-impl  
java  
com  
mysql  
cj  
admin  
conf  
url  
log  
protocol  
result  
result  
doc  
protocol-impl  
java  
com  
mysql  
cj  
protocol  
a  
authentication  
result  
x  
resources

com  
mysql  
cj  
configurations  
util  
user-api  
java  
com  
mysql  
cj  
jdbc  
ha  
interceptors  
result  
xdevapi  
user-impl  
java  
com  
mysql  
cj  
jdbc  
admin  
exceptions  
ha  
integration  
c3p0  
jboss  
interceptors  
jmx  
result  
util  
xdevapi  
test  
config  
ssl-test-certs  
java  
com  
mysql  
cj  
protocol  
a  
x  
result  
xdevapi

testsuite  
perf  
regression  
simple  
x  
devapi  
internal  
perimeter\_quiz  
singlesource  
String\_first  
dna  
dna  
Hello  
tagFinder1  
StringsFirstAssignments  
tagFinder2  
String\_two  
data  
StringsSecondAssignments  
Traveling-Salesman-master  
Traveling-Salesman-master  
src  
net  
blinker  
ga  
tsm  
tsm  
MATLAB  
Examples  
stats  
HARDeploymentExample  
html  
machine-learning-ex1  
machine-learning-ex1  
ex1  
lib  
jsonlab  
machine-learning-ex2  
ex2  
lib  
jsonlab  
machine-learning-ex3  
machine-learning-ex3  
ex3



lib  
jsonlab  
machine-learning-ex4  
machine-learning-ex4  
ex4  
lib  
jsonlab  
machine-learning-ex5  
machine-learning-ex5  
ex5  
lib  
jsonlab  
machine-learning-ex6  
machine-learning-ex6  
ex6  
lib  
jsonlab  
machine-learning-ex7  
machine-learning-ex7  
ex7  
lib  
jsonlab  
machine-learning-ex8  
ex8  
lib  
jsonlab  
upload  
Sc  
stack.java  
.settings  
bin  
stack  
java  
src  
stack  
java

**4)**

**from pathlib import Path**

**list = []**

**def listdirs(rootdir):**

**for path in Path(rootdir).iterdir():**

```
if path.is_file():
    list.append(path.name)
if path.is_dir():
    list.append(path.name)
    listdirs(path)
```

```
return list
```

```
rootdir = 'H:\documents'
list1 = listdirs(rootdir)
print(list1)
print("MedicalApp" in list1)
print(len(list1))
```

#### OUTPUT:

```
C:\Users\HP\PycharmProjects\pythonProject\Securecoding\venv\Scripts\python.exe
C:/Users/HP/PycharmProjects/pythonProject/Securecoding/main4.py
['.metadata', '.lock', '.log', '.mylyn', '.taskListIndex', 'segments_1', 'write.lock', '.tasks.xml.zip',
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'emailSample1.txt', 'emailSample2.txt', 'ex6.m', 'ex6data1.mat', 'ex6data2.mat', 'ex6data3.mat',  
'ex6\_spam.m', 'gaussianKernel.m', 'getVocabList.m', 'lib', 'jsonlab', 'AUTHORS.txt',  
'ChangeLog.txt', 'jsonopt.m', 'LICENSE\_BSD.txt', 'loadjson.m', 'loadubjson.m', 'mergestruct.m',  
'README.txt', 'savejson.m', 'saveubjson.m', 'varargin2struct.m', 'makeValidFieldName.m',  
'submitWithConfiguration.m', 'linearKernel.m', 'plotData.m', 'porterStemmer.m', 'processEmail.m',  
'readFile.m', 'spamSample1.txt', 'spamSample2.txt', 'spamTest.mat', 'spamTrain.mat', 'submit.m',  
'svmPredict.m', 'svmTrain.m', 'token.mat', 'visualizeBoundary.m', 'visualizeBoundaryLinear.m',  
'vocab.txt', 'ex6.pdf', 'machine-learning-ex7', 'machine-learning-ex7', 'ex7', 'bird\_small.mat',  
'bird\_small.png', 'computeCentroids.m', 'displayData.m', 'drawLine.m', 'ex7.m', 'ex7data1.mat',  
'ex7data2.mat', 'ex7faces.mat', 'ex7\_pca.m', 'featureNormalize.m', 'findClosestCentroids.m',  
'kMeansInitCentroids.m', 'lib', 'jsonlab', 'AUTHORS.txt', 'ChangeLog.txt', 'jsonopt.m',  
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'varargin2struct.m', 'makeValidFieldName.m', 'submitWithConfiguration.m', 'loadMovieList.m',  
'movie\_ids.txt', 'multivariateGaussian.m', 'normalizeRatings.m', 'selectThreshold.m', 'submit.m',  
'token.mat', 'visualizeFit.m', 'ex8.pdf', 'machinelearning.m', 'Matrix.m', 'moment.m', 'quiz.m',  
'sincosplot.png', 'Test.asv', 'upload', 'digit\_test.m', 'digit\_train.m', 'elu.m', 'elup.m', 'license.txt',  
'mnist\_test.csv', 'mnist\_train.csv', 'shuffle.m', 'wfour.mat', 'wthree.mat', 'wtwo.mat', 'Merge.class',  
'Merge.java', 'music.mp3', 'music.wav', 'MyFirstJavaProgram.class', 'MyFirstJavaProgram.java',  
'Parent.class', 'Parent.java', 'PascalsTriangle.class', 'PascalsTriangle.java', 'PascalTriangle.java',  
'password.py', 'PatternMatching.class', 'PatternMatching.java', 'pear.txt', 'Perfectnumber.class',  
'Perfectnumber.java', 'Permutation.class', 'Permutation.java', 'physics\_assignment.pdf',  
'Quick.class', 'Quick.java', 'R.class', 'Random.class', 'Random.java', 'rev.class', 'rev.java',  
'reviews.txt', 'Sc', 'Selection.class', 'Selectionsort.java', 'smtp4.o.py', 'smtp\_3.o.py', 'software  
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'stack', 'java', 'Box.class', 'calculator.class', 'student.class', 'volume.class', 'src', 'stack', 'java',  
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'String1.java', 'STS.txt', 'Student18.class', 'Student18.java', 'T.class', 'T.java', 'Test.class',  
'Test.java', 'TesterOuter.java', 'TestMemberOuter1\$Inner.class', 'TestMemberOuter1.class',  
'TestMemberOuter1.java', 'TestOuter1\$Inner.class', 'TestOuter1.class', 'TestOuter1.java',  
'timepass.txt', 'TravelSP.class', 'TravelSP.java']

True

5)

```
from pathlib import Path
```

```
list = []
```

```
def listdirs(rootdir):
```

```
    for path in Path(rootdir).iterdir():
```

```
        if path.is_file():
```

```
            list.append(path.name)
```

```
        if path.is_dir():
```

```
            list.append(path.name)
```

```
            listdirs(path)
```

```
    return list
```

```
rootdir = 'H:\documents'
```

```
list1 = listdirs(rootdir)
```

```
print(list1)
```

```
print("MedicalApp" in list1)
```

```
print(len(list1))
```

```
with open('G:\Semester-6\secure_coding\secure5.txt', 'w') as f:
```

```
    f.writelines(["%s\n" % item for item in list1])
```

## OUTPUT:

```
secure5 - Notepad
File Edit Format View Help
|.metadata
|.lock
|.log
|.mylyn
|.taskListIndex
segments_1
write.lock
.tasks.xml.zip
contexts
repositories.xml.zip
tasks.xml.zip
.plugins
org.eclipse.buildship.core
org.eclipse.core.resources
.history
18
19
20
2a
d01d793dfff1600191a9bfd05e1a377f0
32
33
35
503c672f7365001914adbed02d1a8c64
3c
40
20a7ecd07565001914adbed02d1a8c64
49
a03ccc695df65001914adbed02d1a8c64
51
5a
60
62
308dfdfdfdf65001914adbed02d1a8c64
6a
77
7b
7e
82
85
86
88
```